

FIGURE 1.

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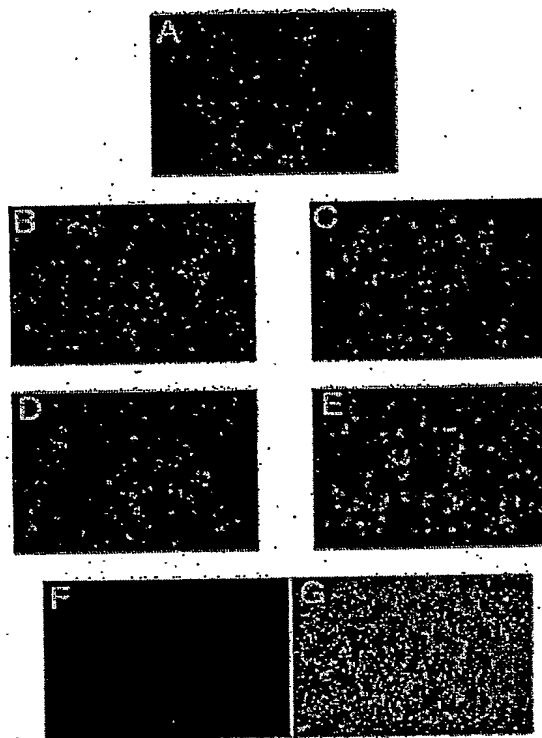


FIGURE 2

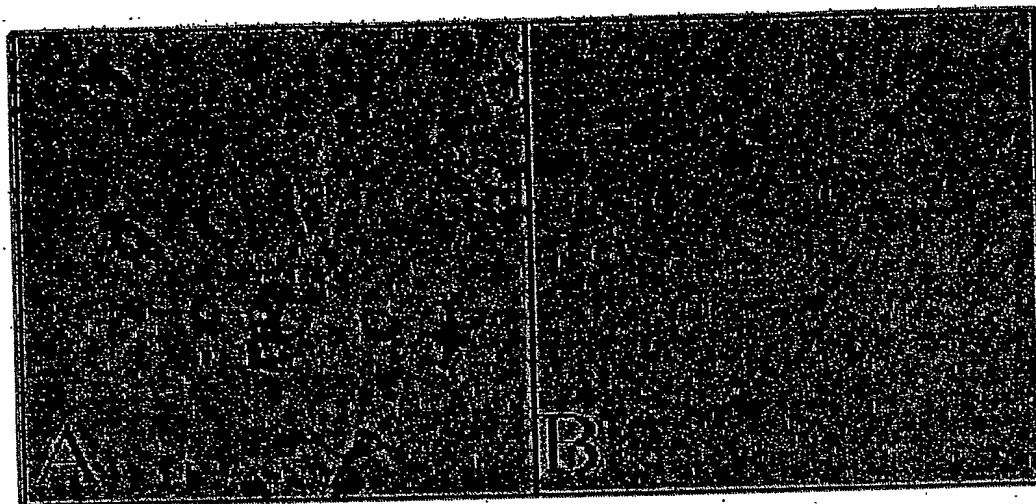


FIGURE 3

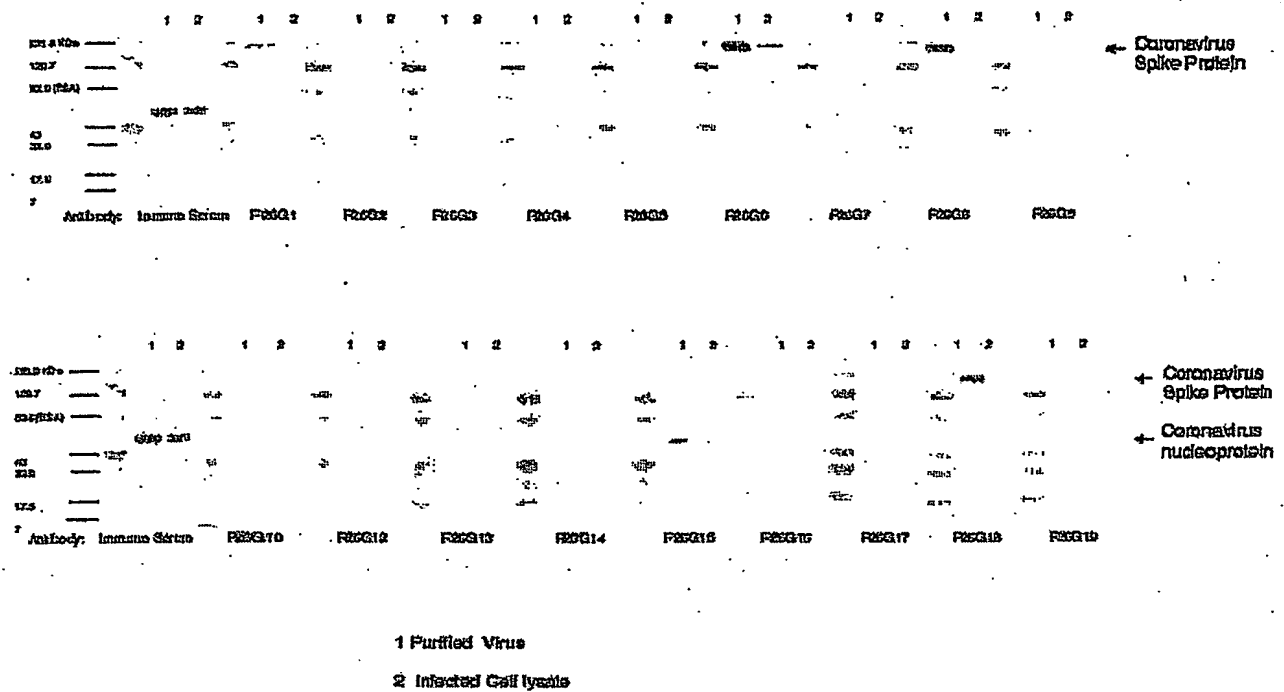


FIGURE 4

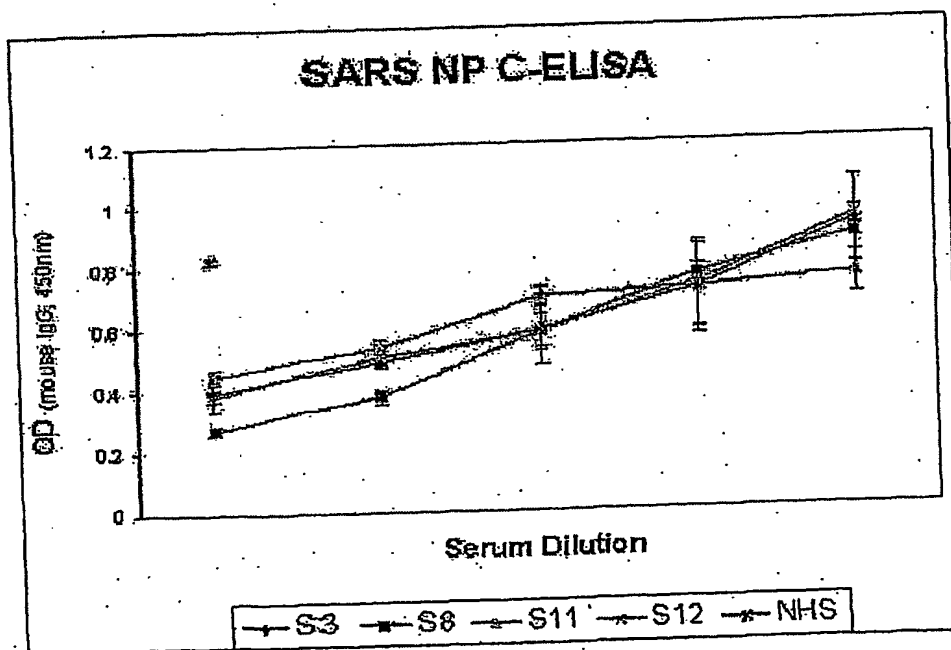
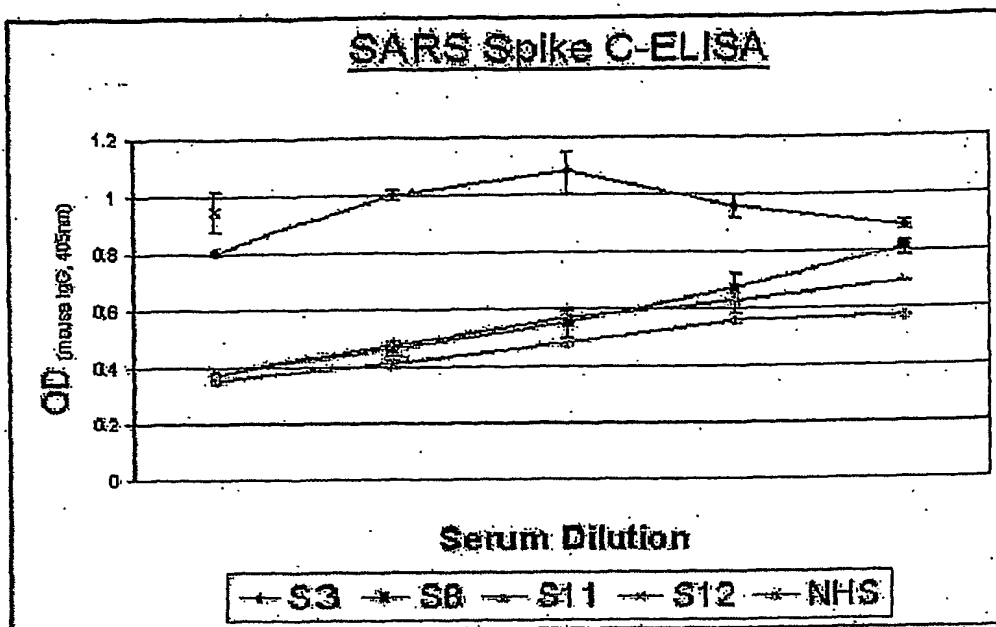


FIGURE 5

# SARS CoV mAb V<sub>L</sub> alignment

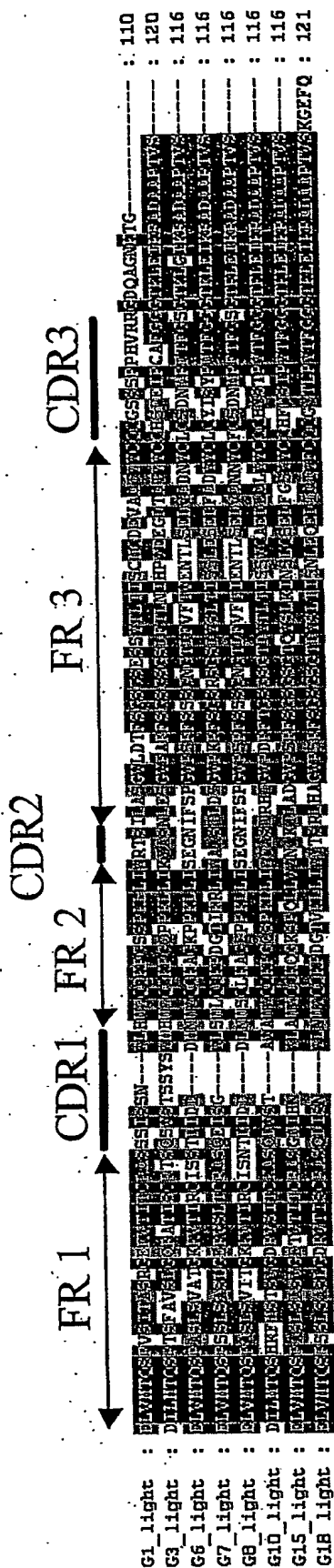


FIGURE 6A

# SARS CoV mAb V<sub>H</sub> alignment

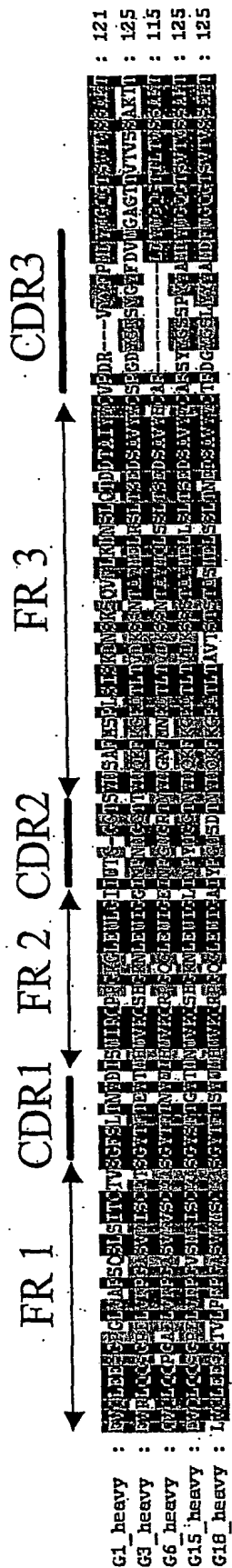


FIGURE 6 B

SARS-specific monoclonal antibodies, Heavy chains (VH), amino acid sequences

**F26G3-VH**

EVRLQQSGPELVKPGASVKISCKTSGYTFTEYTMHWVKQSHGKNLEWIGGINPNNGGTTYNQKFKG  
KATLTVDKSSNTAYMELRSLTSEDSAVYYCSRGDYGTSGYFDVWGAGTTVTVSSAKTTAPSVYPL  
A

**F26G7-VH**

VELLESGTVLARPGASVKMSCEASGYTFTTYWMHWIKQRPQGQLEWIGAIYPGNSDTTYNQKFKGK  
AKLTAVTSTSTAYMELSSLTNEDSAVYYCTREGIPQLLRITMDYWGQGTSTTVSSAKTTPPSV

**F26G9-VH**

VQLEESGTVLARPGASVKMSCKASGYSFTSYWMHWVKQRPQGQLEWIGAIYPGNSDTSYNQKFKGK  
AKLTAVTSASTAYMELSSLTNEDSAVYYCTRSVYYGYGYFDVWGAGTTVTVSSAKTTPPSV

**F26G10-VH**

EVQLEESGTVLARPGASVKMSCKASGYSFTSYWMHWVKQRPQGGLDWIGAIYPENS DTSYNQKFKG  
KAKLTAVTSASTAYMEHSSLTNEDSAVYYCTRSVYYGYGYFDVWGAGTTVTVSSAKTTAPSVYPLA  
PVC GDTTGSSVTLGCLVKGYFPEPVTLTWNSGSLSSGVHTFPAVLQSDLYTLSSSVTVTSSTWPSQ  
SITCNVAHPASSTKVDKKIEPRVPTSQN

**F26G18-VH**

LVQLEESGTVLPRPGASVKMSCKASGYTFTSYWMHWVKQRPQGQLEWIGAIYPGNSDTNYNQKFKG  
RATLTAVTSTSTASMELSSLTNEDSAVYYCTRDGYGSLYYYAMDFWGQGTSTTVSSAKTTAPSVK

**F26G19-VH**

EVQLEESGTVLARPGASVKMSCKASGYTFTTYRMHWIKQRPQGQLEWIGAIYPGNSDTTYNQKFKD  
KAKLTAVTSTSSAYMELSSLTNEDSAVYFCTREGIPQLRLTDYWGQGTSTTVSSAKTTAPSVYPL  
A

**F26G1-VH**

EVQLEESGPGLVAPSQSL SITCTVSGFSLTNYDISWIRQPPGKGLEWLGI IWTGGGTSYNSAFMSR  
LSISKDNSKSQVFLKMNSLQTD DTAIYYCVRDRVYYFPM DYWGQGTSTTVSSAKTTAPSVYPLA

**F26G6-VH**

MEWSWVFLFLVATATDVHSQVQLQQPGAELVKPGASVKVSKASGYTFTNYWIHWVKQRPQGQLEW  
IGEINPGNGRTNYNGNFMNKATLTVDKSSNTAYMQLSSLTSEDSAVYH CARLDYWGQGTTLTVSSA  
KTTPPSV

**F26G8-VH**

VQLEESGAELVKPGASVKVSKASGYTFTSYWIHWVKQRPQGQLEWIGEINPSNGRTNYNGNFESK  
ATLTVDKSSNTAYMHLSSLTYEDSAVYHCTRLDYWGQGTTLTVSSAKTTAPSVYPLA

Neutralizing mAbs are in **bold text**.

**FIGURE 7**



## SARS-specific monoclonal antibodies, Light chains (VL), amino acid sequences

**F26G3-VL**

DILMTQSP<sup>**TS**</sup>FAVSLGQRATISCR<sup>**TS**</sup>QSVSTSSYSYMH<sup>**WY**</sup>QQKPGQPPKLLIKYASNLESGV<sup>**PARF**</sup>  
SGSGSGSDFTLNHPVEEGDTATYYCQHSWEIPCAFGGGTKLEIKRADAAPTVS

**F26G7-VL**

ELVMTQSPSSLSASLGERVSLTCRASQEISGYLSWLQQKPDGTIKRLIYAAS<sup>**TL**</sup>DSGV<sup>**PKRF**</sup>SGSR  
SGSDYSLTISSELESEDFADYYCLQYISYPWTFGGG<sup>**TKLEIKRADAAPTVS**</sup>

**F26G9-VL**

DILMTQSHKCMSTSVGDRVSITCKASQDVSTAVVWYQQKPGQFPKLLIYWASTRHTGVPDRFTGSG  
SGTDYTLTIS<sup>**SVQAEDLALYYCQ**</sup>QHYTTPYTFGGG<sup>**TKLEIKRADAAPTVS**</sup>

**F26G10-VL**

DILMTQSHKFMSTSVGDRVSITCKASQDVSTAVAWYQQKPGQSPKLLIYWASTRHTGVPDRFTGSG  
SGTDYTLTIS<sup>**SVQAEDLALYYCQ**</sup>QHYSTPYTFGGG<sup>**TKLEIKRADAAPTVS**</sup>

**F26G18-VL**

ELVMTQSPSSLSASLGDRVTISCRASQDISNYLNWYQQKPDGTVKLLIYYTSRLHAGVPSR<sup>**FS**</sup>SGSG  
SGTDYSLTISNLEQEDIATYFCQQGYTL<sup>**PYTFGGG**</sup>TKLEIKRADAAPTVSKGEFQHTGGRY

**F26G19-VL**

DILMTQSPSSLSASLGERVSLTCRASQEISGYLSWLQEKPDGTIKRLIYAAS<sup>**TL**</sup>DSGV<sup>**PKRF**</sup>SGSR  
SGSDYSLTISSELESEDFADYYCLQYVSY<sup>**PWTFGGG**</sup>TKLEIKRADAAPTV

**F26G1-VL**

ELVMTQSPVSITASRGEKVTITCRASSSISSNYLHWYQQKPGSSPKLLIYRTSILASGVLDTFSGS  
GSESSYTLTISCMQDEVAATYYCQQGSSSPPHVRRGDQAGNKTG

**F26G6-VL**

ELVMTQSPASLSVATGKKVTIRCISSTDIDDDMNWYQQKAGKPPKLLISEGNIFSPGVPSR<sup>**FSSSG**</sup>  
NGTDFVFTVENTLSE<sup>**DVADNYCLQSDNMP**</sup>FTFGSGTKLG<sup>**IKRADAAPTVS**</sup>

**F26G8-VL**

ELVMTQSPASLSVITGKKVTIRCISNTDIDDDLNWSQLKAGEPPKLLISEGNIFSPGVPSR<sup>**FSSSG**</sup>  
NGTDFVFTIENTLSE<sup>**DVANNYCFQSDNMP**</sup>FTFGSGTKLEIKRADAAPTVS

Neutralizing mAbs are in bold text.

**FIGURE 8**

## SARS-specific monoclonal antibodies, Heavy chains (VH), nucleotide sequences

**F26G3-VH**

ATGGAATGGAGCTGGGTCTTTCTCTTTCTCTCTGTCAGGAACTGCAGGTGTCCTCTCTGAGGTCCGG  
CTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGGCTTCAGTGAAGATATCCTGCAAGACTTCT  
GGATACACATTCACTGAATACACCATGCCTGGGTGAAGCAGAGCCATGGAAAGAACCCTTGAGTGG  
ATTGGAGGTATTAATCCTAATAATGGTGGTACTACCTACAACCAGAAGTTTAAGGGCAAGGCCACA  
TTGACTGTAGACAAGTCTTCCAACACAGCCTACATGGAGCTCCGCAGCCTGACATCTGAGGATTCT  
GCAGTCTATTATTGTTCAAGAGGGGACTACGGTACTAGCTACGGGTACTTCGATGTCTGGGGCGCA  
GGGACCACGGTCACCGTCTCCTCAGCCAAAACAACAGCCCCATCGGTCTATCCACTGGCCA

**F26G7-VH**

GTGGAGCTGCTCGAGTCAGGGACTGTGCTGGCAAGGCCTGGGGCTTCAGTGAAGATGTCCTGCGAG  
GCTTCTGGCTACACCTTTACCACCTACTGGATGCCTGGATAAAACAGAGGCCTGGACAGGGTCTG  
GAATGGATTGGCGCTATTTATCCAGGAAATAGTGATACTACCTACAACCAGAAGTTCAAGGGCAAG  
GCCAACTGACTGCAGTCACATCCACCAGCACTGCCACATGGAGCTCAGCAGCCTGACAAATGAG  
GACTCTGCGGTCTATTACTGTACAAGAGAGGGAATTCCCAATTACTTCGGACTATGGACTACTGG  
GGTCAAGGGACCTCAGTCACCGTCTCCTCAGCCAAACAACACCCCCATCGGTCA

**F26G9-VH**

GTCCAGCTGCTCGAGTCTGGGACTGTGCTGGCAAGGCCTGGGGCTTCCTGTAAGATGTCCTGCAAG  
GCTTCTGGCTACAGCTTTACCAGCTACTGGATGCCTGGGTAAAACAGAGGCCTGGACAGGGTCTA  
GAATGGATTGGTGCTATTTATCCTGGAAATAGTGATACTAGCTACAACCAGAAGTTCAAGGGCAAG  
GCCAACTGACTGCAGTCACATCCGCCAGTACTGCCACATGGAGCTCAGCAGCCTGACAAATGAG  
GACTCTGCGGTCTATTACTGTACAAGATCCGTTTACTACGGCTACGGGTACTTCGATGTCTGGGGC  
GCAGGGACCACGGTCACCGTCTCCTCAGCCAAAACAACACCCCCATCGGTCT

**F26G10-VH**

GAGGTGCAGCTGGAGGAGTCTGGGACTGTGCTGGCAAGGCCTGGGGCTTCCTGTAAGATGTCCTGC  
AAGGCTTCTGGCTACAGCTTTACCAGCTACTGGATGCCTGGGTAAAACAGAGGCCTGGACAGGGT  
CTAGATTGGATTGGTGCTATTTATCCTGAAAATAGTGATACTAGCTACAACCAGAAGTTCAAGGGC  
AAGGCCAACTGACTGCAGTCACATCCGCCAGTACTGCCACATGGAGCACAGCAGCCTGACAAAT  
GAGGACTCTGCGGTCTATTACTGTACAAGATCCGTTTACTACGGCTACGGGTACTTCGATGTCTGG  
GGCGCAGGGACCACGGTCACCGTCTCCTCAGCCAAAGACAACAGCCCCATCGGTCTATCCACTGGCC  
CCTGTGTGTGGAGATACAACCTGGCTCCTCGGTGACTCTAGGATGCCTGGTCAAGGGTTATTTCCCT  
GAGCCAGTGACCTTGACCTGGAACCTCTGGATCCCTGTCCAGTGGTGTGCACACCTTCCCAGCTGTC  
CTGCAGTCTGACCTCTACACCCTCAGCAGCTCAGTGACTGTAACCTCGAGCACCTGGCCCAGCCAG  
TCCATCACCTGCAATGTGGCCACCCGGCAAGCAGCACCAAGGTGGACAAGAAAATTGAGCCCAGA  
GTGCCCACTAGTCAGAAC

**F26G18-VH**

TTGGTGCAGCTGGAGGAGTCTGGGACTGTGTTGCCAAGGCCTGGGGCTTCAGTGAAGATGTCCTGC  
AAGGCTTCTGGCTACACCTTTACCAGCTACTGGATGCCTGGGTAAAACAGAGGCCTGGACAGGGT  
CTGGAATGGATTGGCGCTATTTATCCTGGAAATAGTGATACTAAGTACAACCAGAAGTTCAAGGGC  
AGGGCCACACTGACTGCAGTCACATCCACCAGCACATGCCTCCATGGAGCTCAGCAGCCTGACAAAT  
GAGGACTCTGCGGTCTATTACTGTACAAGAGACGGCTATGGTAGCCTTTATTACTATGCTATGGAC  
TTCTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCAGCCAAAACAACAGCCCCATCGGTCAAGGGC  
GA

FIGURE 9 -1

**F26G19-VH**

GAGGTGCAGCTGGAGGAGTCTGGGACTGTGCTGGCAAGGCCTGGGGCTTCAGTGAAGATGTCCTGC  
AAGGCTTCTGGCTACACCTTTACCACCTACCGGATGCACTGGATAAAACAGAGGCCTGGACAGGGT  
CTGGAATGGATTGGCGCTATTATCCTGGAAATAGTGATACTACCTACAACCAGAAGTTCAAGGAC  
AAGGCCAAACTGACTGCAGTCACATCCACCAGCTCTGCCTACATGGAGCTCAGCAGCCTGACAAAT  
GAGGACTCTGCGGTCTATTTCTGTACAAGAGAGGGAATTCCTCAATTACTTCGGACTTTGGACTAC  
TGGGGTCAAGGAACCTCAGTCACCGTCTCCTCAGCCAAAACAACAGCCCCATCGGTCTATCCACTG  
GCC

**F26G1-VH**

TGAGGTGCAGCTGGAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATTACCTG  
CACTGTCTCTGGGTTCTCATTAACGAACCTATGATATAAGCTGGATTCGCCAGCCACCAGGAAAGGG  
TCTGGAGTGGCTTGGAATAATATGGACTGGTGGAGGCACAAGTTATAATTCAGCTTTCATGTCCAG  
ACTGAGCATCAGCAAGGACAACCTCCAAGAGCCAAGTTTCTTAAAAATGAACAGTCTGCAAACTGA  
TGACACAGCCATATATTACTGTGTAAGAGATAGGGTCTACTACTTCCCTATGGACTACTGGGGTCA  
AGGAACCTCAGTCACCGTCTCCTCAGCCAAAACAACAGCCCCATCGGTCTATCCACTGGCCA

**F26G6-VH**

ATGGAATGGAGCTGGGTCTTTCTCTTTTGGTAGCAACAGCTACAGATGTCCACTCCCAGGTCCAA  
CTGCAGCAGCCTGGGGCTGAACTGGTGAAGCCTGGGGCTTCAGTGAAAGTGTCTTGCAAGGCTTCT  
GGCTACACCTTCACCAACTACTGGATACACTGGGTGAAGCAGAGGCCTGGACAGGGCCTTGAGTGG  
ATTGGAGAGATTAACTCTGGCAACGGTCGTACTAATAATGGGAACCTTCATGAACAAGGCCACA  
CTGACTGTAGACAAATCCTCCAACACAGCCTACATGCAACTCAGCAGCCTGACATCTGAGGACTCT  
GCGGTCTATCACTGTGCAAGATTAGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCAGCC  
AAAACAACACCCCCATCGGTCT

**F26G8-VH**

GTCCAGCTGCTCGAGTCTGGGGCTGAACTGGTGAAGCCTGGGGCTTCAGTGAAAGTGTCTTGCAAG  
GCTTCTGGCTACACCTTCACCAGCTACTGGATACACTGGGTGAAGCAGAGGCCTGGACAGGGCCTT  
GAGTGGATTGGAGAGATTAACTCTAGCAACGGTCGTACTAATAATGGGAACCTTCAGAGCAAG  
GCCACACTGACTGTAGACAAATCCTCCAACACAGCCTACATGCACCTCAGCAGCCTGACATATGAG  
GACTCTGCGGTCTATCACTGTACAAGATTAGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCC  
TCAGCCAAAACAACAGCCCCATCGGTCTATCCACTGGCC

Neutralizing mAbs are in **bold text**.

**FIGURE 9-2**

## SARS-specific monoclonal antibodies, Light chains (VL), nucleotide sequences

**F26G3-VL**

GGGCCCAGCCGGCCGAGCTCGACATTCTGATGACCCAGTCTCCTACTTCCTTTGCTGTATCTCTGG  
GGCAGAGGGCCACCATCTCATGCAGGACCAGCCAAAGTGTGAGTACATCTAGCTATAGTTATATGC  
ACTGGTACCAACAGAAACCAGGACAGCCACCACAACTCCTCATCAAGTATGCATCCAACCTAGAAT  
CTGGGGTCCCTGCCAGGTTGAGTGGCAGTGGGTCTGGGTGAGACTTCACCCTCAACATCCATCCTG  
TGGAGGAGGGGGATACTGCAACATATTACTGTCAGCACAGTTGGGAGATTCCGTGCGCGTTCGGAG  
GGGGGACCAAGCTGGAAATAAAACGGGCTGATGCTGCACCAACTGTATCC

**F26G7-VL**

GTGCCAGATGTGAGCTCGTGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAG  
TCAGTCTCACTTGTGCGGCAAGTCAGGAAATTAGTGGTTATTTAAGCTGGCTTCAGCAGAAACCAG  
ATGGAACATTAAACGCCTGATCTACGCCGATCCACTTTAGATTTCGGGTGTCCCAAAAAGGTTCA  
GTGGCAGTAGGTCTGGGTGAGTATTCTCTCACCATCAGCAGCCTTGAGTCTGAAGATTTTGCAG  
ACTATTACTGTCTACAATATATTAGTTATCCGTGGACGTTTCGGGGGAGGTACCAAGCTGGAAATCA  
AACGGGCTGATGCTGCACCAACTGTATCC

**F26G9-VL**

GACATTCTGATGACCCAGTCTCACAATGTCATGTCCACATCAGTAGGAGACAGGGTCAGCATCACC  
TGCAAGGCCAGTCAGGATGTGAGTACTGCTGTAGTCTGGTATCAACAAAAACCAGGGCAATTTCT  
AACTACTGATTTACTGGGCATCCACCCGGCACACTGGAGTCCCTGATCGCTTCACAGGCAGTGGA  
TCTGGGACAGATTATACTCTCACCATCAGCAGTGTGCAGGCTGAAGACCTGGCACTTTATTACTGT  
CAGCAACATTATACCACTCCGTACACGTTTCGGAGGGGGGACCAAGCTGGAAATAAAACGGGCTGAT  
GCTGCACCAACTGTATCC

**F26G10-VL**

GGGCCCAGCCGGCCGAGCTCGACATTCTGATGACCCAGTCTCACAATTCATGTCCACATCAGTAG  
GAGACAGGGTCAGCATCACCTGCAAGGCCAGTCAGGATGTGAGTACTGCTGTAGCCTGGTATCAAC  
AAAAACCAGGGCAATCTCCTAACTACTGATTTACTGGGCATCCACCCGGCACACTGGAGTCCCTG  
ATCGCTTCACAGGCAGTGGATCTGGGACAGATTATACTCTCACCATCAGCAGTGTGCAGGCTGAAG  
ACCTGGCACTTTATTACTGTGAGCAACATTATAGCACTCCGTACACGTTTCGGAGGGGGGACCAAGC  
TGGAATAAAACGGGCTGATGCTGCACCAACTGTATCC

**F26G18-VL**

GAGCTCGTGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTCTGGGAGACAGAGTCACCATCAGT  
TGCAGGGCAAGTCAGGACATTAGCAATTATTTAAACTGGTATCAGCAGAAACCAGATGGAAGTGT  
AACTCCTGATCTATTACACATCAAGATTACACGCAGGAGTCCCATCAAGGTTCAAGTGGCAGTGGG  
TCTGGAACAGATTATTCTCTCACCATTAGCAACCTGGAGCAAGAAGATATTGCCACTTACTTTTGC  
CAACAGGGTTATACGCTTCCGTACACGTTTCGGAGGGGGGACCAAGCTGGAAATAAAACGGGCTGAT  
GCTGCACCAACTGTATCCAA

**F26G19-VL**

GACATTCTGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGTCTCACT  
TGTGCGGCAAGTCAGGAAATTAGTGGTTACTTTAAGCTGGCTTCAGGAGAAACCAGATGGAAGTATT  
AAACGCCTGATCTACGCCGCTTCCACTTTAGATTCTGGTGTCCCAAAAAGGTTCAAGTGGCAGTAGG  
TCTGGGTGAGATTATTCTCTCACCATCAGCAGCCTTGAGTCTGAAGATTTTGCAGACTATTACTGT  
CTACAATATGTTAGTTATCCGTGGACGTTTCGGTGGAGGCACCAAGCTGGAAATCAAACGGGCTGAT  
GCTGCACCAACTGTA

FIGURE 10-1

F26G1-VL

GTGCCAGATGTGAGCTCGTGATGACCCAGTCTCCAGTATCCATAACTGCATCTCGAGGGGAGAAGG  
TCACCATCACCTGCCGTGCCAGCTCAAGTATAAGTTCCAATTACTTACACTGGTACCAGCAGAAGC  
CAGGATCCTCCCCTAAACTTTTGATTTATAGGACATCCATCCTGGCATCTGGAGTCTGGACACCT  
TCAGTGGCAGTGGGTCTGAGAGCTCTTACACTCTGACAATCAGCTGCATGCAGGACGAAGTTGCTG  
CCACTTACTATTGTGAGCAGGGGAGTAGTAGCCACACACGTTCCGAGGGGGGACCAAGCTGGAA  
ATAAAACGGGCTGATGCTGCACCAACTGTATCCA

F26G6-VL

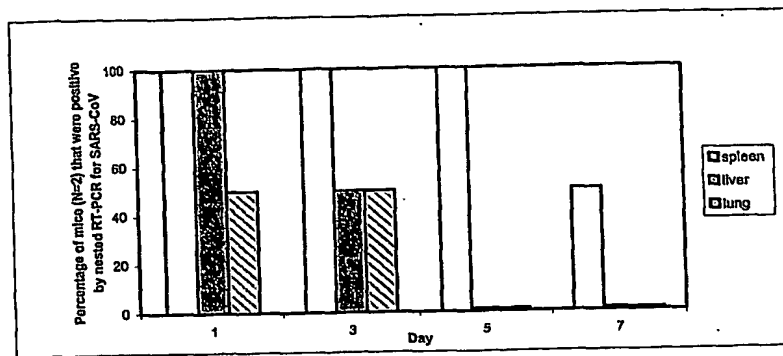
GTGCCAGATGTGAGCTCGTGATGACCCAGTCTCCAGCATCCCTGTCCGTGGCTACAGGAAAAAAG  
TCACCATCAGATGCATAAGCAGCACTGACATTGATGATGATATGAACTGGTACCAGCAGAAGGCAG  
GAAAACCTCCTAAACTCCTTATTTTCAGAAGGCAATATTTTTAGTCCTGGAGTCCCATCCCGATTCT  
CCAGCAGTGGCAATGGCACAGATTTTGTTTTTACAGTTGAAAACACGCTCTCAGAAGATGTTGCAG  
ATAACTACTGTTTGCAAAGTGATAACATGCCATTACGTTCCGGCTCGGGGACAAAGTTGGGAATAA  
AACGGGCTGATGCTGCACCAACTGTATCC

F26G8-VL

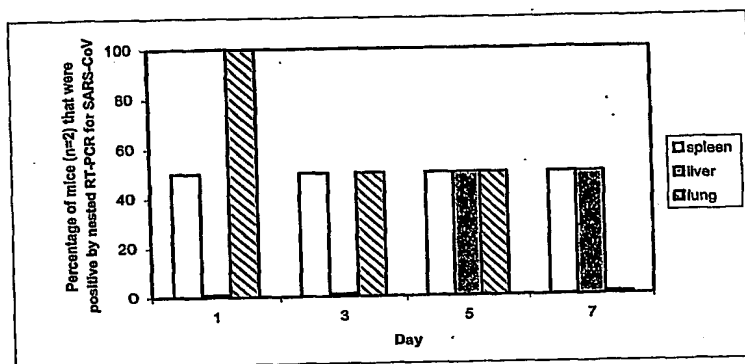
GTGCCAGATGTGAGCTCGTGATGACCCAGTCTCCAGCATCCCTGTCCGTGATTACAGGAAAAAAG  
TCACCATCAGATGCATAAGCAACACTGACATTGATGATGATTTGAACTGGTCCCAGCTGAAGGCAG  
GAGAACCTCCTAAACTCCTTATTTTCAGAAGGCAATATTTTTAGTCCTGGAGTCCCATCCCGATTCT  
CCAGCAGTGGCAATGGCACAGATTTTGTTTTTACAATTGAAAACACGCTCTCAGAAGATGTTGCAA  
ATAACTACTGTTTCCAAAGTGATAACATGCCATTACGTTCCGGCTCGGGGACAAAGTTGGAAATAA  
AACGGGCTGATGCTGCACCAACTGTATCC

Neutralizing mAbs are in bold text.

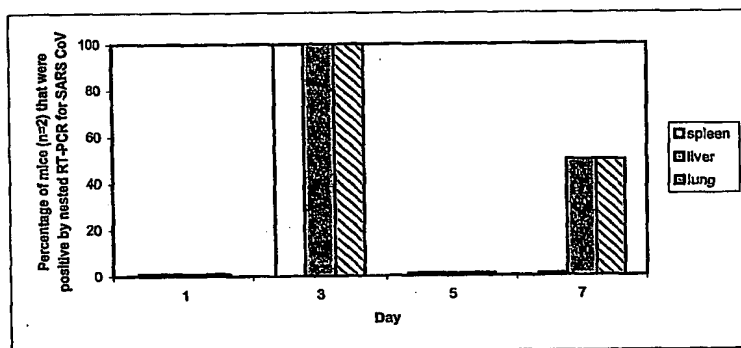
**FIGURE 10-2**



(A)

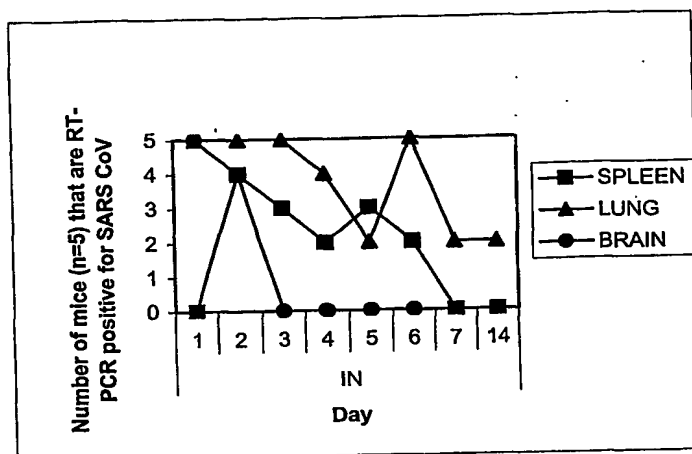


(B)

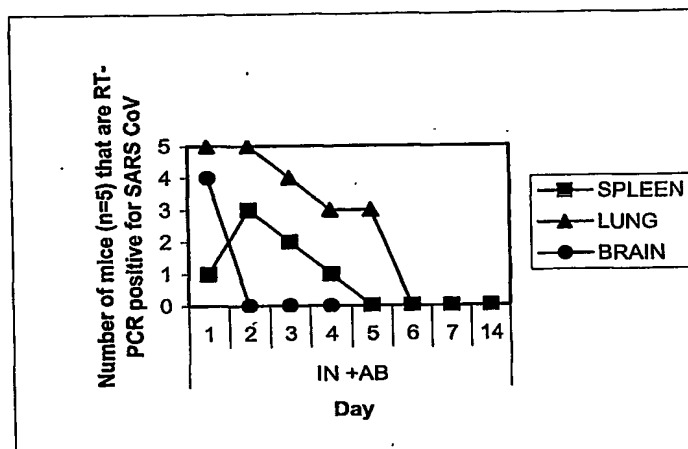


(C)

FIGURE 11



(A)



(B)

Figure 12

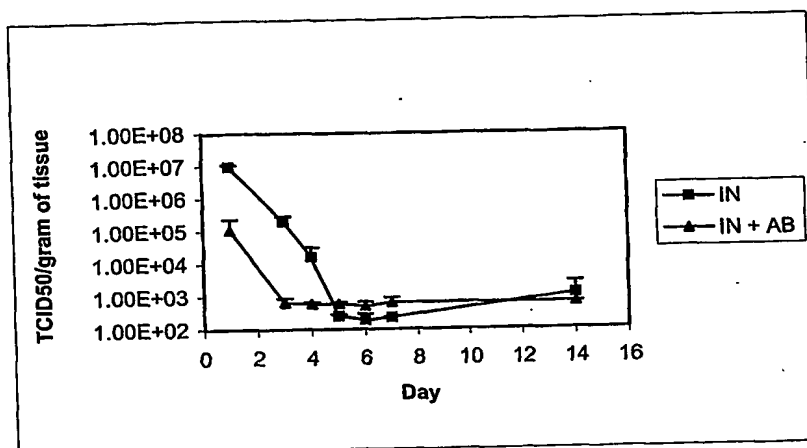


Figure 13



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